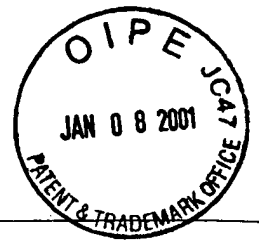


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Docket No. P48D1-US

Anticipated Classification of this Application:

Class: Subclass:

Prior Application

Examiner:

Art Unit:

"EXPRESS MAIL" MAILING LABEL

NUMBER EL 438391474 US

DATE OF DEPOSIT March 30, 2000

I HEREBY CERTIFY THAT THIS PAPER OR FEE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO: ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, DC 20231.

TYPED NAME Michelle White

SIGNED Michelle White

Box: **PATENT APPLICATION**  
Assistant Commissioner for Patents  
Washington, DC 20231

EL 438391474US

Sir:

This is a request for filing an

- ☐ Original
- ☐ Continuation
- ☒ Divisional
- ☐ Continuation-in-part

application under 37 C.F.R. 1.53(b), in the name of

DAVID V. PEDERSEN AND IGOR Y. KHANDROS

(Names of ALL Applicants)

for LITHOGRAPHICALLY DEFINED MICROELECTRONIC CONTACT STRUCTURES

(Title of Invention)

This ☐ continuation ☒ divisional ☐ continuation-in-part

claims priority to pending application Serial No. 09/032,473, filed on February 26, 1998

1. Enclosed is a

- (a) ☐ new application.
- (b) ☐ Enclosed is a continuation-in-part application.
- (c) ☒ Enclosed is a copy of the prior application.

2. (a) ☐ Enclosed is a new Declaration and Power of Attorney.

- (b) ☒ Enclosed is a copy of the prior Declaration as originally filed.

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3. X The filing fee is calculated below:

Claims as filed in the prior application, less any claims canceled by amendment below:

|   | (Col. 1)<br>NO. FILED | (Col. 2)<br>NO. EXTRA | SMALL ENTITY<br>RATE FEE | OTHER THAN SMALL<br>ENTITY<br>RATE FEE |
|---|-----------------------|-----------------------|--------------------------|--|
| BASIC FEE   |                       |                       | \$345                    | \$690                                  |
| TOTAL CLAIMS  | 25 - 20 =             | 5                     | x 9 = \$                 | x 18 = \$ 90                           |
| INDEP CLAIMS  | 1 - 3 =               | 0                     | x 39 = \$                | x 78 = \$                              |
| MULTIPLE DEPENDENT CLAIM PRESENTED                                |                       |                       | +130 = \$                | +260 = \$                              |
| If the difference in Col 1 is less than zero, enter "0" in Col. 2 |                       |                       | TOTAL \$                 | TOTAL \$ 780                           |

4. X The Commissioner is hereby authorized to charge any additional fees which may be required, including extension fees, or credit any overpayment to Deposit Account No. 50-0285 (Order No. P48D1-US).
5.      Our check in the amount of \$      is enclosed.
6. X Cancel in this application original claims 1-39 of the prior application before calculating the filing fee. (At least one independent claim must be retained for filing purposes.)
7.      Amend the specification by inserting before the first line the sentence:

|             |                          |                     |                                  |
|-------------|--------------------------|---------------------|----------------------------------|
| --This is a | <u>    </u> continuation | <u>X</u> divisional | <u>    </u> continuation-in-part |
|-------------|--------------------------|---------------------|----------------------------------|

of application Serial No. 09/032,473 filed February 26, 1998 .--

8. (a)      Informal drawings are enclosed.  
(b) X Formal drawings are enclosed.
9. (a)      Priority of application Serial No.      filed on      in      is claimed under 35 U.S.C. 119.  
(b)      The certified copy has been filed in prior application Serial No.      filed on

10. X The prior application is assigned of record to FormFactor, Inc.

11. X The power of attorney in the prior application is to:

Name: David Larwood  
Address FormFactor, Inc. 5666 La Ribera Street, Livermore, CA 94550

- (a) X The power appears in the original papers in the prior application.
- (b)      Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.
- (c)      A new power has been executed and is enclosed.
- (d) X Address all future communications to:

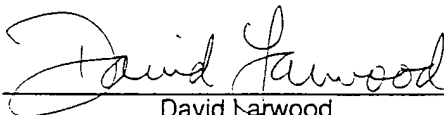
David Larwood  
FormFactor, Inc.  
5666 La Ribera Street  
Livermore, CA 94550  
Telephone: 925-294-4300

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12. \_\_\_ A preliminary amendment is enclosed. (Claims added by this amendment have been properly numbered consecutively beginning with the number next following the highest numbered original claim in the prior application.)
13. X I hereby verify that the attached papers are a true duplicate of prior application Serial No. 09/032,473 as originally filed on February 26, 1998.

Date: March 30, 2000

Signature: \_\_\_\_\_



David Larwood  
Reg. No. 33,191

FormFactor, Inc.  
5666 La Ribera Street  
Livermore, CA 94550  
925-294-4300  
925-294-8147 fax



PATENT  
Docket No.: P48D1-US

Receipt

#3

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RA3222

3/12/01

**CERTIFICATE OF MAILING BY "FIRST CLASS MAIL" 37 C.F.R. §1.8**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail on January 4, 2001 in an envelope addressed to: Application Processing Division, Assistant Commissioner for Patents, Washington, D.C. 20231.

*Patti Crowder*

Patti Crowder

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the application of:

David V. Pedersen et al.

Application No.: 09/539,287

Filing Date: March 30, 2000

For: LITHOGRAPHICALLY DEFINED  
MICROELECTRONIC CONTACT  
STRUCTURES

Examiner: Not yet assigned

Group Art Unit: 3729

**REQUEST FOR CORRECTED FILING RECEIPT**

Application Processing Division  
Assistant Commissioner for Patents  
Washington, D.C. 20231

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Dear Sir:

Enclosed is a copy of the Official Filing Receipt received in the identified patent application marked in red to identify the corrections needed. The priority lineage is not identified. Therefore, a copy of page 1 of the specification, the declaration and the application transmittal form are enclosed for clarification.

Please correct and/or add the following:

**Applicant(s)**

Please delete "David L. Pedersen" and insert therefore --David V. Pedersen--.

**Continuing Data as Claimed by Applicant**

This Application claims benefit of 60/073,679, 2/4/98.  
This Application is a Div of 09/032,473, 2/26/98  
Which is a CIP of 08/852,152, 5/6/97

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**Foreign Data**

This Application is a CIP of PCT/US97/08634, 5/15/97

Issuance of a corrected Filing Receipt is respectfully requested.

The Assistant Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. §§ 1.16 and 1.17 that may be required by this transmittal and associated documents, or to credit any overpayment to Deposit Account No. 50-0285. A duplicate copy of this transmittal is enclosed for that purpose.

Respectfully submitted,

Date: January 4, 2001

By: 

Stuart L. Merkadeau  
Registration No. 33,262

FormFactor, Inc.  
5666 La Ribera St.  
Livermore, CA 94550  
925-456-7355  
925-294-8147 Fax

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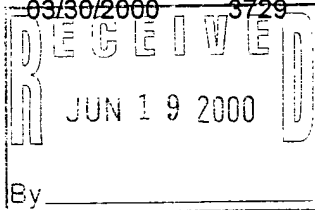
## FILING RECEIPT



\*OC000000005167628\*

UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark OfficeAddress: ASSISTANT SECRETARY AND  
COMMISSIONER OF PATENT AND TRADEMARKS  
Washington, D.C. 20231

| APPLICATION NUMBER | FILING DATE | GRP ART UNIT | FIL FEE REC'D | ATTY. DOCKET NO | DRAWINGS | TOT CLAIMS | IND CLAIMS |
|--------------------|-------------|--------------|---------------|-----------------|----------|------------|------------|
| 09/539,287         | 03/30/2000  | 3729         | 780           | P48D1-US        | 14       | 25         | 1          |

David Larwood  
FormFactor INC  
5666 LaRibera Street  
Livermore, CA 94550

Date Mailed: 06/09/2000

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).**

## Applicant(s)

David L Pedersen, Scotts Valley, CA ;  
Igor Y. Khandros, Orinda, CA ;

## Continuing Data as Claimed by Applicant

## Foreign Applications

If Required, Foreign Filing License Granted 06/08/2000

## Title

Lithographically defined microelectronic contact structures

## Preliminary Class

029

Data entry by : RORIE, DEANNA

Team : OIPE

Date: 06/09/2000



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**LICENSE FOR FOREIGN FILING UNDER**  
**Title 35, United States Code, Section 184**  
**Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 36 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

**PLEASE NOTE the following information about the Filing Receipt:**

- The articles such as "a," "an" and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.
- The words "new," "improved," "improvements in" or "relating to" are not included as first words in the title of an application because a patent application, by nature, is a new idea or improvement.
- The title may be truncated if it consists of more than 600 characters (letters and spaces combined).
- The docket number allows a maximum of 25 characters.
- If your application was submitted under 37 CFR 1.10, your filing date should be the "date in" found on the Express Mail label. If there is a discrepancy, you should submit a request for a corrected Filing Receipt along with a copy of the Express Mail label showing the "date in."

Any corrections that may need to be done to your Filing Receipt should be directed to:

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 Office of Initial Patent Examination  
 Customer Service Center  
 Washington, DC 20231

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LITHOGRAPHICALLY DEFINED MICROELECTRONIC CONTACT STRUCTURES

INVENTOR(S):

PEDERSEN, David V.  
6 Sterling Lane  
5 Scotts Valley, CA 95066  
Citizenship: US

KHANDROS, Igor Y.  
25 Haciendas Rd.  
10 Orinda, CA 94563  
Citizenship: US6

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CROSS-REFERENCE TO RELATED APPLICATIONS

This patent application is a continuation-in-part of  
15 commonly-owned, copending U.S. Patent Application entitled  
"MICROELECTRONIC CONTACT STRUCTURES", Serial No. 60/073,679  
filed 04 Feb 98 by Pedersen and Khandros, incorporated by  
reference herein.

This patent application is also a continuation-in-part of  
20 commonly-owned, copending U.S. Patent Application No.  
08/852,152 filed 06 May 97 by Eldridge, Khandros, Mathieu and  
Pedersen (status: pending) and its counterpart PCT Patent  
Application No. US97/08634 filed 15 May 97 (status: published  
25 as WO97/43654, 20 Nov 97), both of which are incorporated by  
reference herein, both of which are referred to hereinafter as  
the "PARENT CASE".

TECHNICAL FIELD OF THE INVENTION

The present invention relates to resilient (spring)  
30 contact (interconnection) elements (structures) suitable for  
effecting pressure and/or compliant connections between  
electronic components and, more particularly, to  
microminiature contact structures.

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